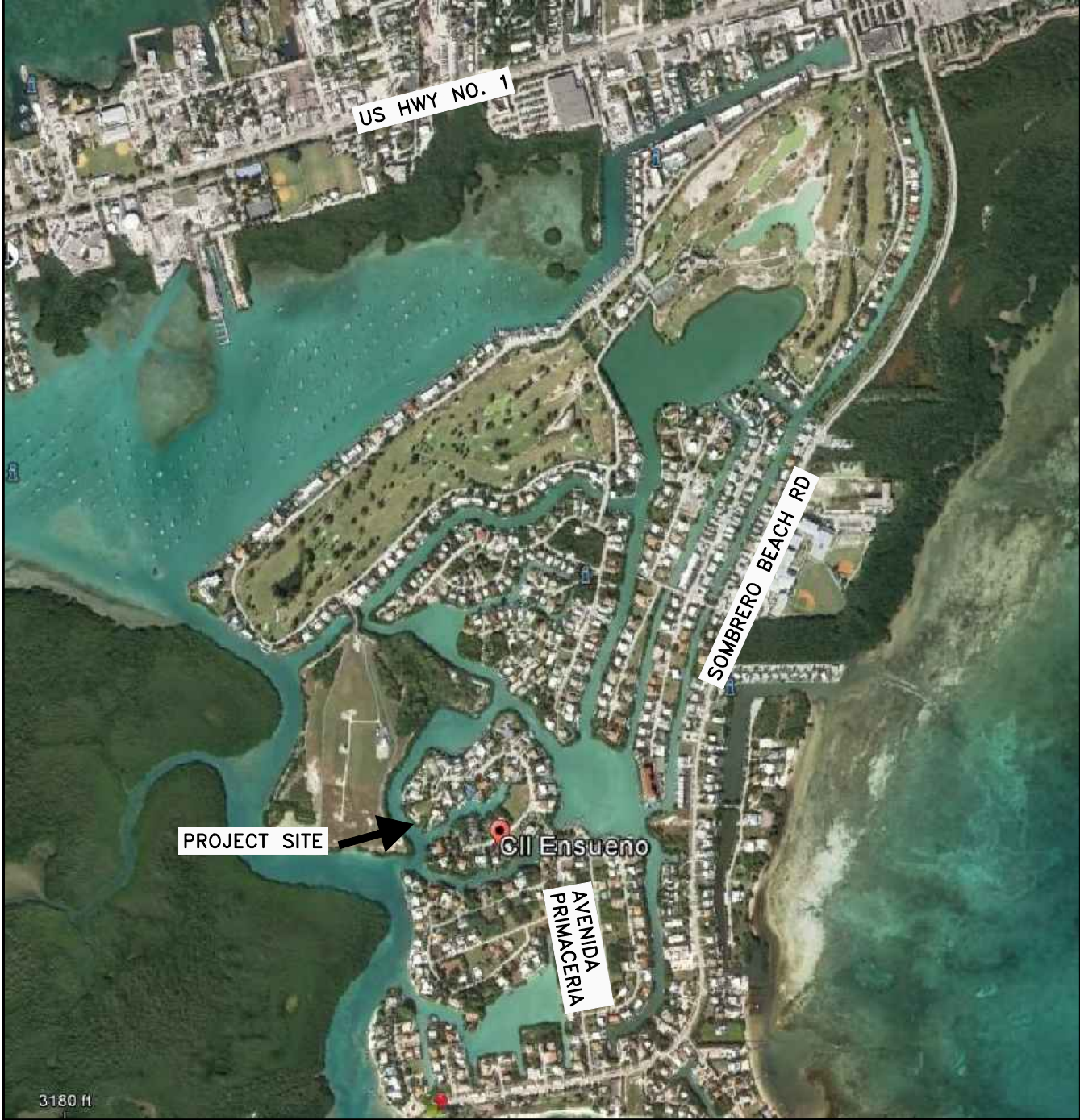


**PROJECT LOCATION**  
 RE: 00357041-001600  
 LOT 16, SOMBRERO ISLE  
 PLAT BOOK 6 PG 85  
 SECTION 15, TOWNSHIP 66 SOUTH, RANGE 32 EAST  
 LATITUDE: 24.698383°N LONGITUDE: 81.086725°W

**DIRECTIONS:**  
 U.S. HIGHWAY NO. 1 SOUTH TO MM 50±. LEFT ONTO  
 SOMBRERO BEACH ROAD. LEFT ONTO AVENIDA PRIMACERIA.  
 LEFT ONTO CALLE ENSUENO.  
 PROJECT SITE: ADJACENT TO 126 & 138 CALLE ENSUENO.

**ADJOINING OWNERS**  
 KENDALL J. WARRINGTON III ESTATE  
 C/O ALMA PAULETTE WARRINGTON  
 34331 SAHALEE LOOP  
 DADE CITY, FL 33525-6241  
  
 ROBERT EL. & WENDY S. PROBST  
 126 CALLE ENSUENO  
 MARATHON, FL 33050



| REVISIONS: |  |  |  |  |
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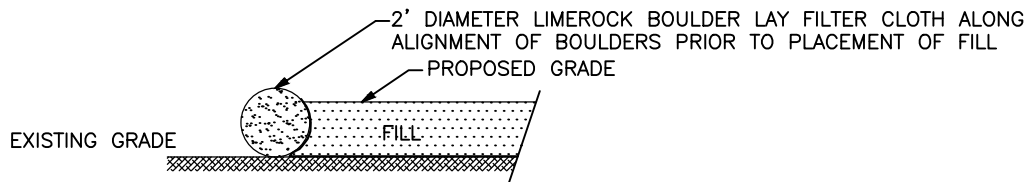
LOCATION & VICINITY MAP  
 SCALE: AS SHOWN

DOCK, MAINTENANCE DREDGE & FILL  
 FOR OCEANSIDE 3 LLC  
 MARATHON, MONROE COUNTY, FL

GLEN BOE AND ASSOCIATES, INC. # 4061  
 5800 OVERSEAS HIGHWAY, SUITE 4, MARATHON, FL 33050  
 Telephone (305) 743-9121 Fax (305) 743-9197  
 Email: glenboe@bellsouth.net

DATE: 04/11/16

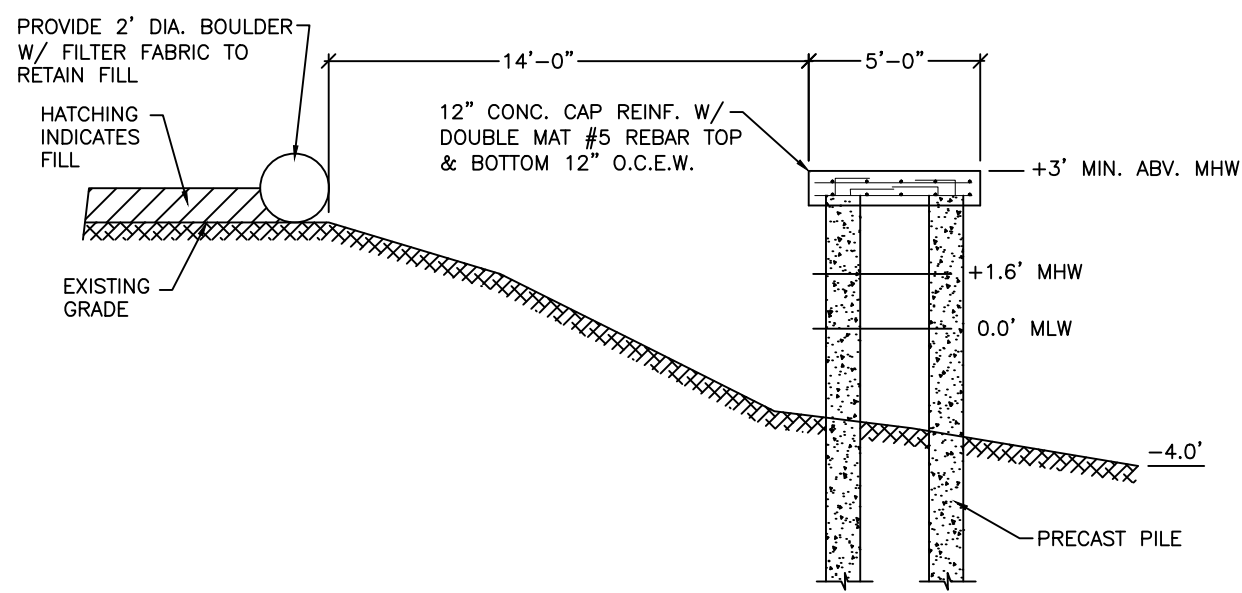
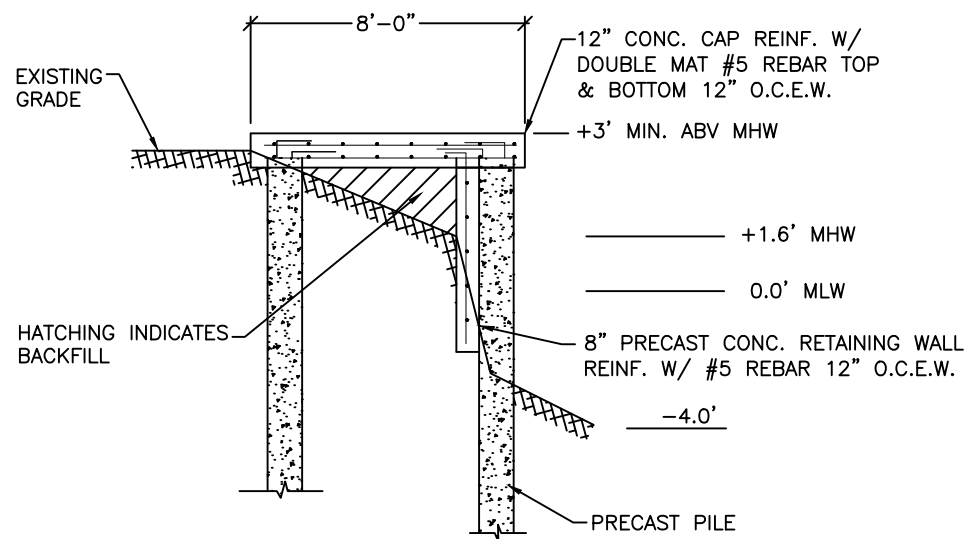
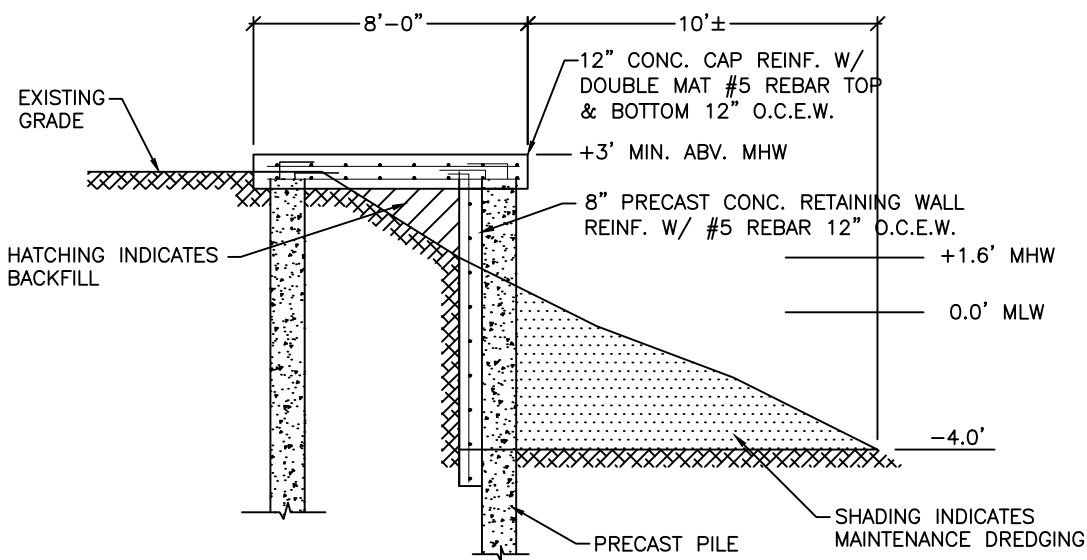




## BOULDER RETAINING WALL DETAIL

SCALE: 3/16" = 1'-0"

| REVISIONS:   |  | 05/17/16 |  |
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| 1  |  |          |  |
| DOCK, MAINTENANCE DREDGE & FILL FOR OCEANSIDE 3 LLC MARATHON, MONROE COUNTY, FL  |  |          |  |
| GLEN BOE AND ASSOCIATES, INC. # 4061 5800 OVERSEAS HIGHWAY, SUITE 4, MARATHON, FL 33050 Telephone (305) 743-9121 Fax (305) 743-9197 Email: glenboe@bellsouth.net |  |          |  |
| DATE: 04/11/16   |  |          |  |
| 2  |  |          |  |
| SHEET 2 OF 5   |  |          |  |

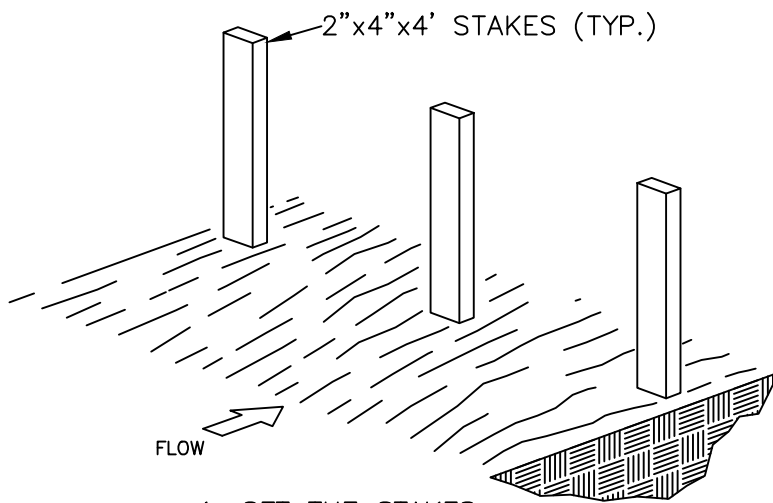


| REVISIONS: |  |  |  |  |
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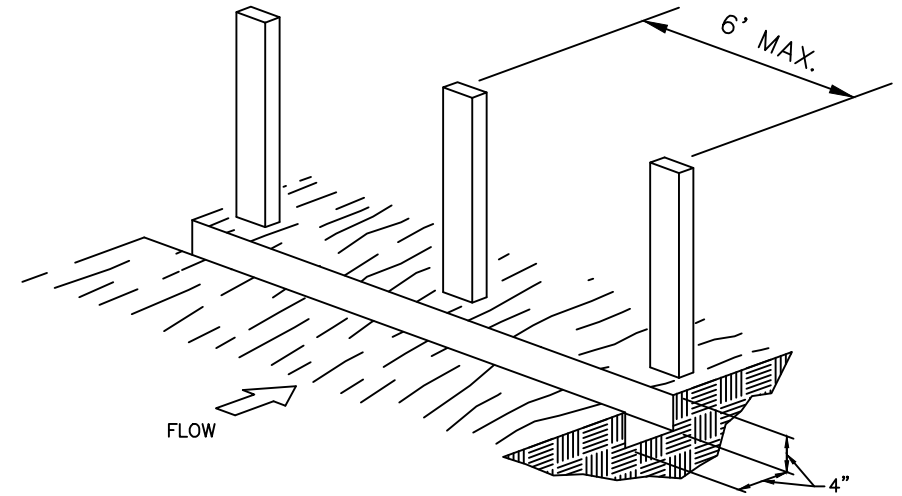
DOCK, MAINTENANCE DREDGE & FILL  
FOR OCEANSIDE 3 LLC  
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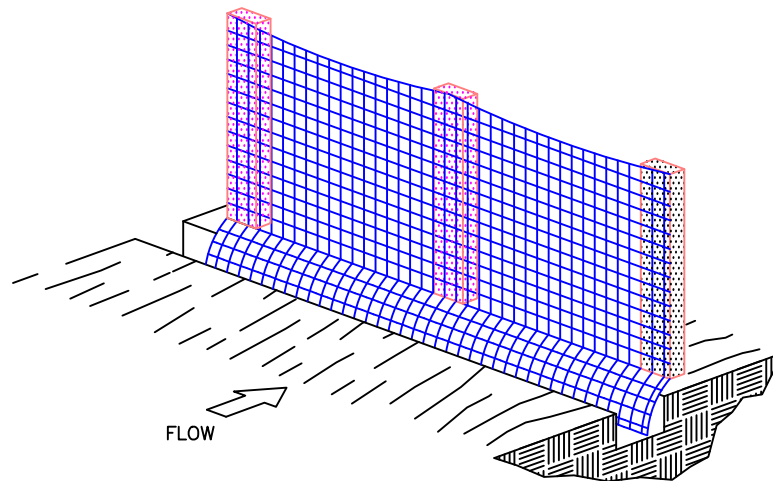
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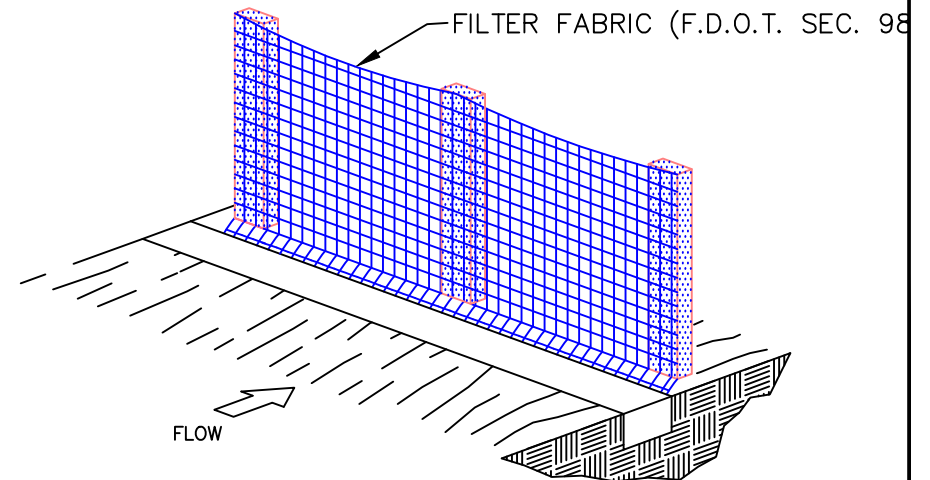
1. SET THE STAKES



2. EXCAVATE A 4"x4" TRENCH UPSLOPE  
ALONG THE LINE OF STAKES.



3. STAPLE FILTER MATERIAL TO STAKES  
AND EXTEND IT INTO THE TRENCH.



4. BACKFILL AND COMPACT THE EXCAVATED SOIL.

## F.D.O.T. TYPE III FILTER FENCE

**CONSTRUCTION NOTES:**

1. CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS PRIOR TO COMMENCING WORK. THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, THE ARMY CORPS OF ENGINEERS & LOCAL REGULATIONS SHALL GOVERN ALL WORK.
2. WORK SHOWN ON DRAWINGS IS DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (LATEST ADDITION). FOLLOW ALL APPLICABLE PROVISIONS FOR ALL PHASES OF CONSTRUCTION.
3. THE PROPOSED STRUCTURE(S) IS DESIGNED FOR A LIVE LOAD OF 40 PSF. WIND LOADS ARE DESIGNED PER THE FLORIDA BUILDING CODE.
4. CONTRACTOR SHALL ADHERE TO THE STANDARD MANATEE CONSTRUCTION CONDITIONS (LATEST ADDITION). IF NEEDED, THE CONTRACTOR CAN CONTACT THE ARMY CORPS OF ENGINEERS OR THIS OFFICE TO OBTAIN A COPY OF THE STANDARD MANATEE CONSTRUCTION CONDITIONS.
5. BEST MANAGEMENT PRACTICES, INCLUDING THE USE OF TURBIDITY SCREENS, ARE REQUIRED TO ISOLATE THE CONSTRUCTION AREA FROM THE ADJACENT WATERS. CONTRACTOR SHALL INSTALL TURBIDITY SCREENS AROUND THE IMMEDIATE PROJECT AREA PRIOR TO CONSTRUCTION. THE TURBIDITY SCREENS REMAIN IN PLACE UNTIL WATER QUALITY CONDITIONS RETURN TO PRECONSTRUCTION CONDITIONS. WATER QUALITY MONITORING SHALL ADHERE TO STATE REGULATIONS.
6. ELECTRIC & WATER (DESIGN PROVIDED BY OTHERS UNLESS SHOWN) SHALL BE PROVIDED. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL PROPOSED UTILITIES WITH OWNER PRIOR TO CONSTRUCTION.
7. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS & WATER DEPTHS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE COMMENCING WORK.
8. THE STRUCTURAL INTEGRITY OF THE COMPLETED STRUCTURE DEPENDS ON INTERACTION OF VARIOUS CONNECTED COMPONENTS. PROVIDE ADEQUATE BRACING, SHORING, AND OTHER TEMPORARY SUPPORTS AS REQUIRED TO SAFELY COMPLETE THE WORK.
9. EXERCISE EXTREME CARE AND CAUTION WHEN EXCAVATING AND FILLING ADJACENT TO EXISTING STRUCTURES. UNDER NO CIRCUMSTANCES SHALL THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURES BE IMPAIRED IN ANY WAY BY CONSTRUCTION OPERATIONS AND PROCEDURES. DO NOT EXCAVATE OR DISTURB SOIL ADJACENT TO OR BENEATH EXISTING FOOTINGS.
10. CONTRACTOR SHALL COORDINATE INSTALLATION OF CLEATS, LADDERS, PILE CAPS, AND OTHER DOCK ACCESSORIES WITH OWNER PRIOR TO CONSTRUCTION. ALL DOCK ACCESSORIES SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. STAINLESS STEEL HARDWARE SHALL BE USED FOR ALL CONNECTIONS TO DOCK. PROVIDE A MINIMUM OF 3" CLEARANCE FROM EDGE OF STRUCTURE TO EDGE OF BOLTS.

**CONCRETE PILES:**

PILES SHALL BE COMMERCIAL GRADE BY FLORIDA ROCK & SAND OR APPROVED EQUAL.

CONCRETE PILES SHALL BE 12"x12" PRESTRESSED CONCRETE PILES W/ FOUR 0.5" DIAMETER 270 LOW-RELAXATION STRAND @ 44 KIPS W/ W3.4 WIRE SPIRAL TIES. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 6000 PSI. CONCRETE SHALL BE FDOT CLASS V SPECIAL. ALL REINFORCING STEEL, EXCEPT SPIRAL TIES, SHALL BE ASTM A615, GRADE 60. SPIRAL TIES SHALL BE HARD DRAWN BASIC WIRE IN ACCORDANCE WITH ASTM A-82. EACH WRAP OF SPIRAL SHALL BE TIED TO AT LEAST TWO CORNER STRANDS.

**ALTERNATE STRAND PATTERNS -**

EIGHT 7/16" DIAMETER 270 LOW-RELAXATION STRAND @ 23.3 KIPS

EIGHT 1/2" DIAMETER 250 STRESS RELIEVED STRAND @ 24.1 KIPS

TWELVE 3/8" DIAMETER 270 LOW-RELAXATION STRAND @ 17.2 KIPS

TWELVE 3/8" DIAMETER 250 STRESS RELIEVED STRAND @ 15.6 KIPS

PILES SHALL BE SET IN PREDRILLED OR PREPUNCHED HOLES AND DRIVEN TO PENETRATE FIRM ROCK 7' MIN.

PILES SHALL BE SPACED @ MAXIMUM OF 10' O.C. UNLESS OTHERWISE SHOWN.

DO NOT DRIVE PILES WITHIN 20 FEET OF CONCRETE LESS THAN SEVEN DAYS OLD.

RE-DRIVE ANY PILE WHICH IS RAISED DURING DRIVING OF ADJACENT PILES, TO THE ORIGINAL TIP ELEVATION.

CUT OFF PILES TO PROVIDE A MINIMUM OF 3" EMBEDMENT INTO CONCRETE CAP. PROVIDE A MINIMUM 30" SPLICE FOR ALL STRANDS.

PILES SHALL DEVIATE FROM PLUMB AND ANGLE OF BATTER NO MORE THAN 1/4 INCH PER FOOT OF PILE LENGTH, BUT NOT MORE THAN 6 INCHES OVERALL. PILES SHALL NOT DEVIATE FROM LOCATION OF PILE TOP MORE THAN 6 INCHES.

REMOVE CUTOFF SECTIONS OF PILES FROM THE SITE AND LEGALLY DISPOSE.

**CONCRETE CAP, VERTICAL SLABS & BEAMS:**

CAST IN PLACE CONCRETE SHALL BE TYPE II CONCRETE WITH A COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS. MAXIMUM WATER-CEMENTIOUS MATERIALS RATIO BY WEIGHT RATIO SHALL BE 0.40. SLUMP SHALL NOT EXCEED 5" (1"±).

REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A 615, GRADE 60. ALL DETAILING AND ACCESSORIES TO CONFORM TO ACI DETAILING MANUAL (LATEST ADDITION).

PROVIDE 3/4" CHAMFER ON ALL EXPOSED CONCRETE EDGES.

PROVIDE LIGHT BROOM FINISH ON ALL EXPOSED CONCRETE SLABS.

REINFORCED CONCRETE CONSTRUCTION TO CONFORM TO ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".

PROVIDE SLEEVES FOR ALL PIPES, CONDUITS, ETC., THAT PENETRATE CONCRETE STRUCTURAL MEMBERS PRIOR TO PLACEMENT OF CONCRETE. CUTTING OR DRILLING OF HARDENED CONCRETE NOT PERMITTED.

DO NOT EMBED HORIZONTAL CONDUITS, PIPES, ETC., IN HORIZONTAL CONCRETE STRUCTURAL MEMBERS UNLESS SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS.

REQUIRED CONCRETE COVER FOR REINFORCING STEEL (UNLESS NOTED OTHERWISE):

3" MINIMUM, BOTTOM 3" MINIMUM, SIDES 3" MINIMUM

PROVIDE 90° BEND WITH 36" MINIMUM SPLICE FOR ALL VERTICAL BARS ON TOP OF VERTICAL WALL. PANELS SHALL PENETRATE CONCRETE CAP 3" MINIMUM. BOTTOM OF VERTICAL SLABS SHALL BE PLACED ON FIRM ROCK OR PENETRATE CANAL BOTTOM 4' MIN.

PROVIDE CHAIRS, SPACERS, TIES, AND ALL DEVICES NECESSARY FOR PROPER PLACING, SPACING, SUPPORTING, AND FASTENING REINFORCEMENT AS REQUIRED BY ACI 315. PROVIDE CHAIRS, SPACERS, BOLSTERS, AND ITEMS IN CONTACT WITH FORMS WITH HOT-DIP GALVANIZED LEGS OR PLASTIC LEGS.

LAP SPLICE CONTINUOUS VERTICAL OR HORIZONTAL BARS IN CONCRETE MEMBERS BY WIRING TOGETHER IN CONTACT IN ACCORDANCE WITH ACI 318, LATEST EDITION, FOR CLASS "B" TENSION LAP SPLICES. DO NOT SPLICE CONTINUOUS TOP BARS IN BEAMS AT ENDS OF CLEAR SPANS. DO NOT SPLICE CONTINUOUS BOTTOM BARS IN BEAMS IN CLEAR SPANS BETWEEN SUPPORTS.

PROVIDE 1" EXPANSION JOINT @ 75' INTERVALS FOR CONCRETE CAP. THE FILLER SHALL BE INSTALLED 1/2" BELOW THE CONCRETE SURFACE AND SEALED WITH A JOINT SEALING COMPOUND TO PROTECT FROM WATER INFILTRATION AND WEATHERING. A BACKER ROD OR BOND BREAKER TAPE SHOULD BE INSTALLED OVER THE JOINT FILLER TO PREVENT THE SEALANT FROM BONDING TO THE FILLER.

REVISIONS:

CERTIFIED BY:  
SEAN KIRWAN, P.E. #67506

DOCK, MAINTENANCE DREDGE & FILL  
FOR OCEANSIDE 3 LLC  
MARATHON, MONROE COUNTY, FL

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